#### DEPARTMENT OF PUBLIC SAFETY

uv·	SUPPLEMENT 00-004327
ALASKA STATE TROOPERS, A	
EVENTERATED BY DFM's JETTY Gentile/Theresa A. SmithDATE EVENTERATED June, 9-10-217	2000
muse case FIRE -Other Vehicle M/V Columbia State of Alaska Ferry	

<u>SUPPLEMENTAL REPORT</u> Written by Deputy Fire Marshal (DFM) Gentile

# **SUMMARY**

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On or about June 6, 2000, at approximately (approx.) 1205 hrs the Motor Vessel (M/V) Columbia reported an electrical fire in the engine room of the ship. On June 9, 2000, Deputy Fire Marshals (DFMs) Gentile & Smith were sent to assist the National Transportation Safety Board (NTSB) in their investigation of the fire. No injuries or deaths were reported, The cause of the fire was determined to be metal banding failing on the main electrical buss bars in electrical control panels 1 and 2, creating an electrical arch producing extreme heat.

# NOTEFICATION

The morning of June 9, 2000, State Fire Marshal (SFM), Gary Powell called DFM Gentile and requested I go to the Auke Bay Ferry Terminal, (Juneau) to assist NTSB in determining the origin and cause of the fire. DFM Smith was included for the training experience.

## ON-SCENE FIRE INVESTIGATION:

At approx. 1030 hours on June 9, 2000 DFMS Gentile and Smith arrived onboard the M/V Columbia and met Ms. Nancy McAtee, with NTSB. She asked us to go to the engine room electrical control room to survey the scene while she finished some crew interviews. She asked us not to disturb the scene until she was available to assist. It must be noted that from the time of the incident throughout the investigation the scene was unsecured. Access was limited but not off limits.

Smith and myself were taken to the engine room to view the scene. The scene appeared to be in pretty much intact, but you could tell that there had been some firefighter overhaul. The scene was not secured or monitored before or after our arrival. A quick evaluation of the overall scene indicated the most damage was done to panel #2 at and above the mid-level. It was not apparent where the point of origin was or any indication of a probable cause. We looked for frayed wiring that may have caused the initial arch, none was found.

When Ms. McAtee arrived we systematically photographed the control panels and the breakers that were removed during overhaul. After looking closely at the buss bars and wire cables it was determined that the cables did not cause the fire but the insulation on the cables contributed to the fuel load. The buss bars and some of the cabinet frame had been melted as if they were cut with a cutting torch. All indications were that the fire was extremely hot. Parts of the cabinet's frame were 1/8" steel and in some cases ¼" steel where the frame was double thickness as between the breakers. The

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DEPARTMENT OF PUBLIC SAFETY
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ALASKA STATE TROOPERS, A OPAGEMENT. F.M.O.J. PORT.  BYESTINGATED BY DFM's JUSTY Gentile/Therese A. Smith BATES BYESTINGATED JUNE, 9-10&17 , 2000
mu or one FIRE -Other Vehicle M/V Columbia State of Alaska Ferry
1/8" thick metal tray, which held wires, above panel #2 had a hole burnt through it approx. 6" wide by 3' long in the center of the tray. It was apparent that panel #2 had suffered more heat for a longer period of time than panel #1.
We then systematically removed some of the breakers that were left in the panels, marking them and moving them out of the room. Each was examined to determine if it could have been the cause of the fire. They did not show indications that the breakers had failed and caused the fire, There did not appear to be any one point of origin on the panel.
After thoroughly evaluating the inside of panels #1 & #2 we had not noted anything that could have cause the fire. We then focused on the deck underneath the panels the area was photographed before starting. There was a lot of melted metal (slag) located on the deck under the panels, there was also a lot of fire extinguisher powder covering the slag and other material on the deck. Photos were taken of the wire banding (a metal strip approx. *V** wide with small slots
located in the middle, similar to an automotive hose clamp w/o the tightening screw device), located on the deck under panels #1 & #2 that were visible before collecting. The panels were evaluated for areas where the metal banding may have fallen off of the cables they supported. We could not locate any areas, on the cables, that appeared to have banding that may have fallen off in order to cause the fire. Had the banding been on the cables there should have been

the most of the cable insulation was in uniform condition.

We scraped the deck under panel # 2 first to see if anything had fallen down that could have caused the fire. We used

the same pattern for deaning the deck under each of the 3 panels. Each panel was approx, divided into thirds from left

signs of the insulation used between the banding and the cables, as in other areas where the banding was still in place.

There should have been indentations in the cable insulation where the banding had been tightened even after the fire as

to right. Each third was divided approx. In half from front to back so if anything were found we could identify the area found. The deck was scraped with a tool and collected in a dustpan, by section, to remove it from under the buss bars in the panel. The dustpan was then sifted on the rubber mat located on the deck in front of the panels; to see if there was any unusual debris located under the panel. The deck under the panels appeared to contain dust, metal slag, pieces of metal banding, plastic banding, and fire extinguisher powder. During the sifting process any metal pieces that could be

identified were kept separate from the debris. While processing the deck under the panels any banding, botts, nuts, or any other object that looked like it had been arched by high voltage, was photographed, marked and placed in plastic

bags. The bags were then turned over to the NTSB for their processing. All debris and stag was placed in plastic buckets

so they could be used to reconstruct the scene or if further testing were necessary.

#### BUILDING CONSTRUCTION OF THE INVOLVED STRUCTURE:

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muse case FIRE -Other Vel	hicle M/V Colum	nhis State of A	laska Ferry		
The M/V Columbia is a steel hu	d ship.				<del></del>
<u>EXTERIOR EXAMINATION C</u>	OF THE INVOLVE	D STRUCTURE:			
The exterior showed no signs o	ıf damage.				
INTERVIEWS:					
<u>INTERVIEW # . VI. PG. Name</u>	of Person (not rec	orded):			
All interviews were conducted a	and recorded by th	e NTS8 team. D	FMs Gentile and Smith	sat in on some in	iterviews as well
as talking with pertinent crew r	members at the fire	e scene. (See NT	SB Report)		
INTERIOR EXAMINATION C	of the involve	D STRUCTURE:			
The area of fire was to the mai	in <del>electrica</del> l control	panels from the	ship's 3 main generato	rs. The panels a	re located in the
electrical control room in the m	vain engine room.				
ADDITIONAL INFORMATIO	<u>M:</u>				
On June 17, 2000 DFM Gentile	: was asked, by NT	TSB, to respond	to Ketchikan to assist v	vith the reconstr	action of the fire
scene. I met with Tom Roth-	Roffy, NTSB, Don	Glesby, BATF,	Edward Scheeler, Scha	efer Engineering	Corp., H. Bruce
Land III, John Hopkins Univer	rsity. Mr. Land is	an expert in a	oplied physics, and Mr.	Schaefer is a fi	prensic electrical
engineer. We processed the sa	cene again kooking	more dosely at	the buss bars and signs	s of arching. After	er reconstructing
the panel by identifying all bre	aker locations and	checking the br	eakers it was determine	d that the break	ers were not the
cause of the fire. That the dar	mage to the breaks	ers was caused f	rom the fire. Mr. Land I	found a bolt with	signs of arching
on the head and thread end or	n the bottom angle	brace on panel	<ol> <li>He thought that this</li> </ol>	s bolt might have	cause the initial
arch by falling between two bu	iss bars on panel 1	. It must be not	ed that Mr. Land nor M	r. Schaefer had s	een the banding
or other items that were colle	ected during our in	ritial Investigatio	n on June 9—10 <sup>th</sup> , the	y had been take	in back to NTSB
Headquarters for analysis.					
PIRE ORIGIN AND CAUSE C	CONCLUSION:				
The origin of the fire was loc	ated in panels #1	l and #2 somey	where behind the break	iers near the top	of the breaker
panels. The most probable ca	use was a loose p	slece of metal ba	anding failing onto two	buss bars causin	g the initial arch
which started a chain reaction	until both generati	ors were shut do	wn.		
MOTEVE:					
NA					
MEANS:	-, <b>,</b>			COMETO:	
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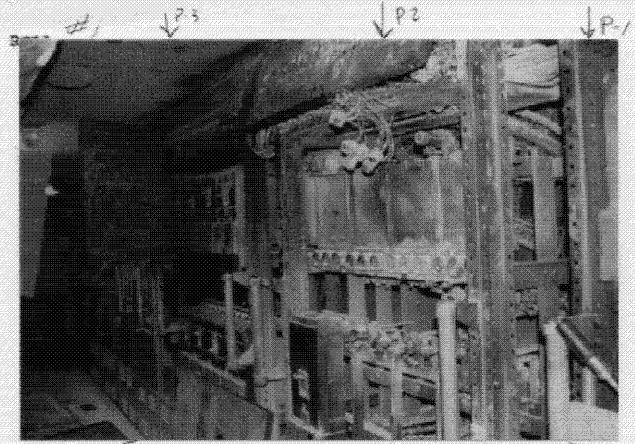
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PM SECTION 120.070		
USCG and Capital City Fire and Rescue		
See NTSB report.		
Alaska Marine Highwey System		
a) Motor Vessel Passenger & Vehicle Ferry		
b) Transportation		
c) Ship		
d) Marine Vessel "Columbia"		
Estimated Lose 5 ↑ – 2 million		
Self Insured State of Alaska		
SAA		
NA		
Main Electrical Control Panel		
). Five Foot Level		
. Electrical Buse Bars		
2. Spark		
3. Steel & Cooper		
4. Metal & Wire Insulation		
5. Loose Metal		
3. a) Metal Cabinets, Breakers, Buss Bars, Wiring		
b) Control Room		
c) NA		
d) NA		
7. None		
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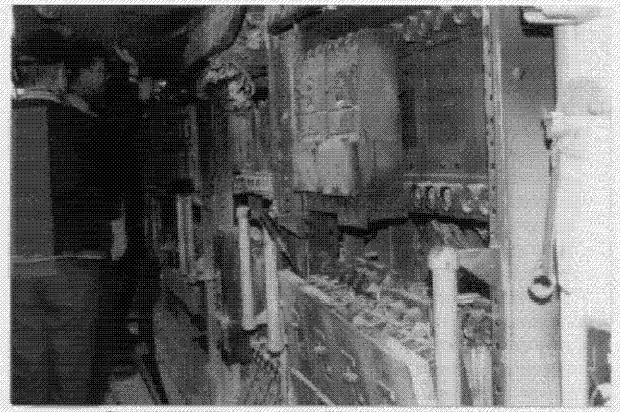
# **DEPARTMENT OF PUBLIC GAPETY**

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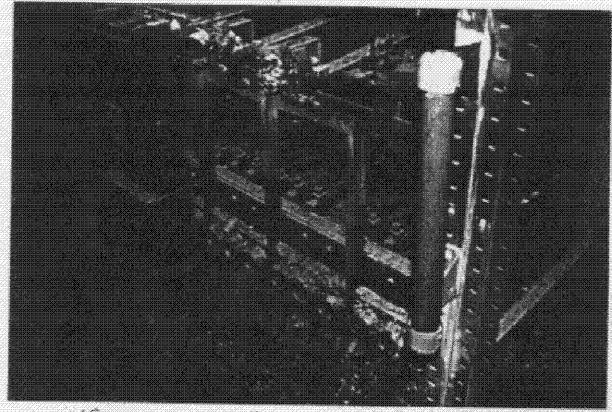
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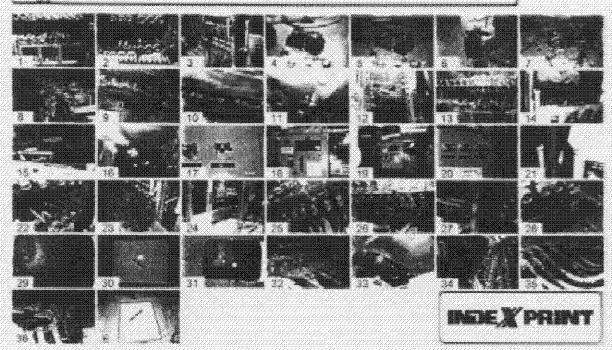
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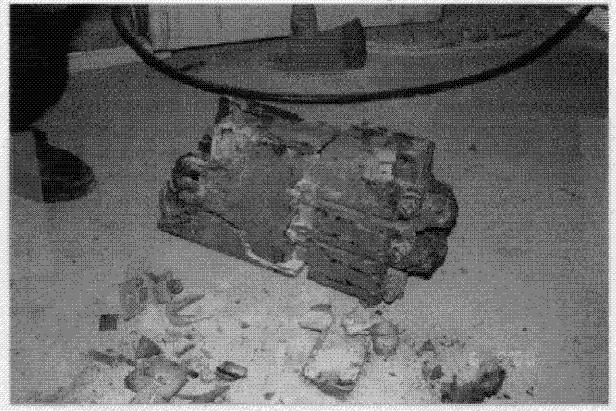
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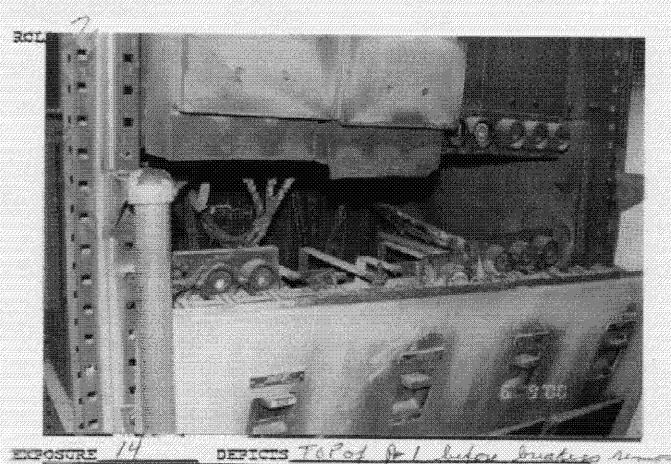
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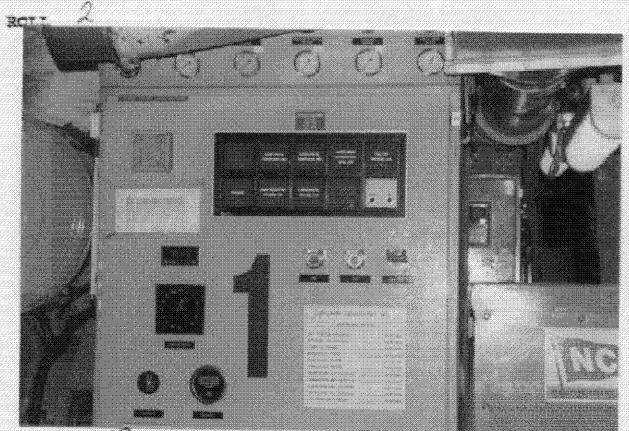
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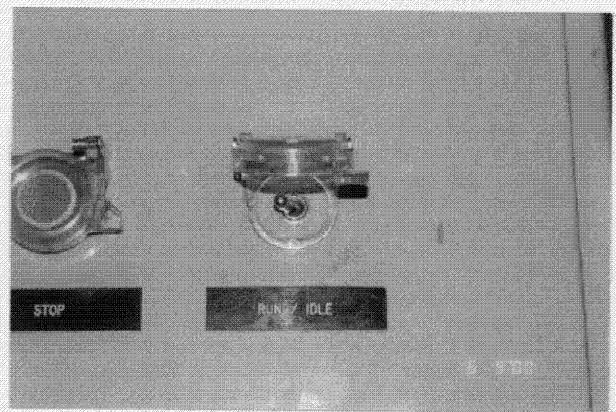
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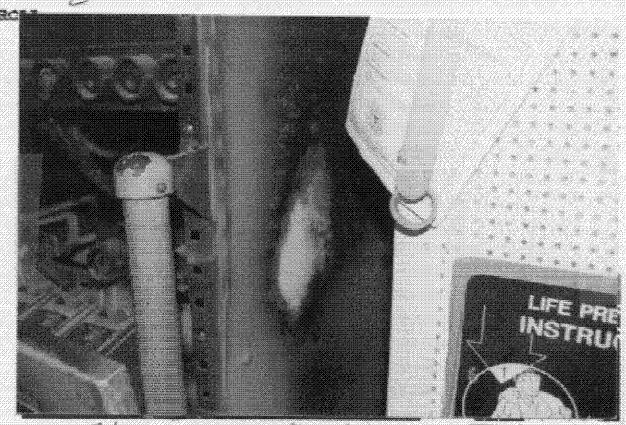


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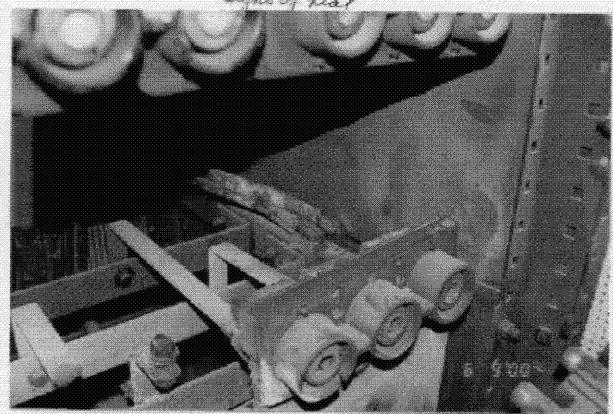


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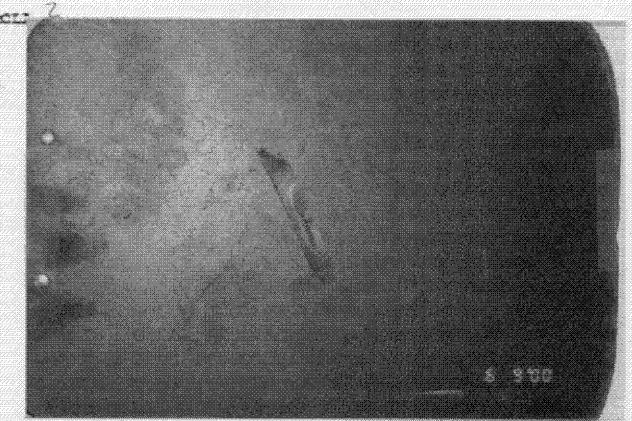


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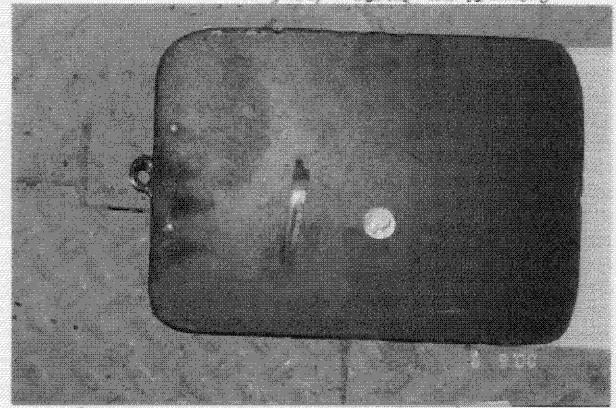
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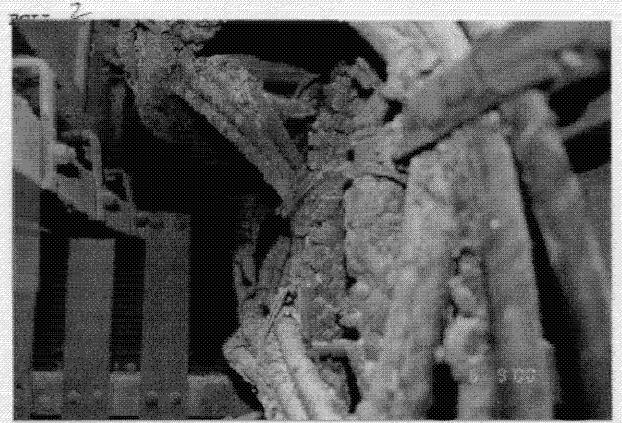
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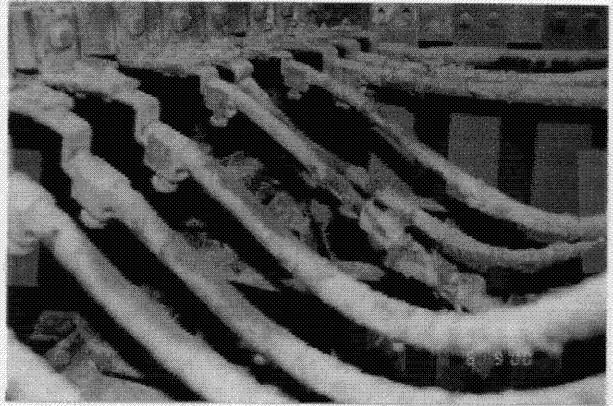
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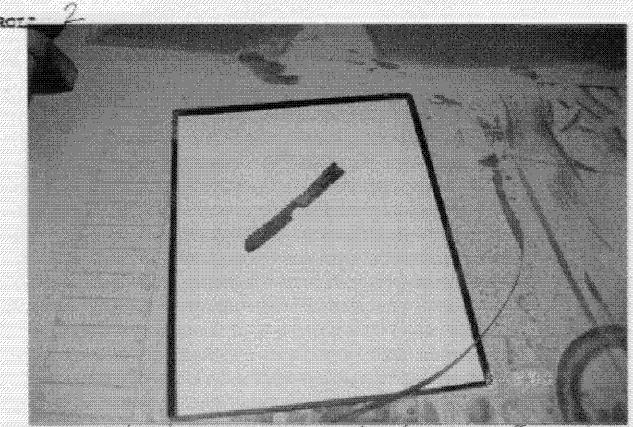


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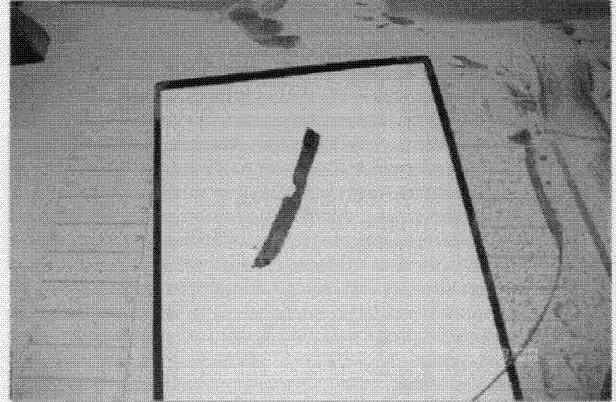


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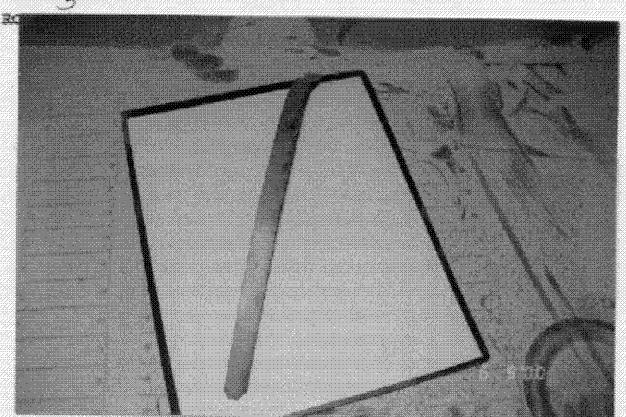
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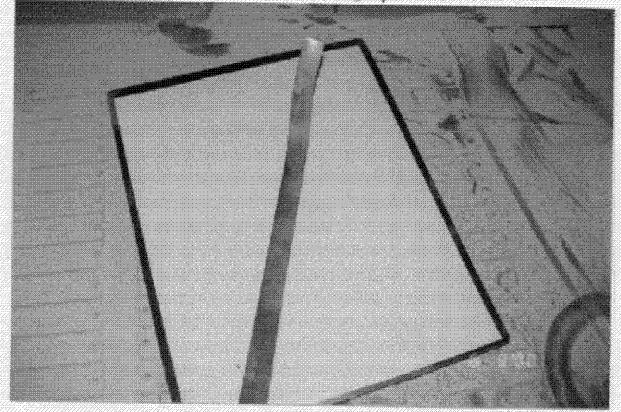
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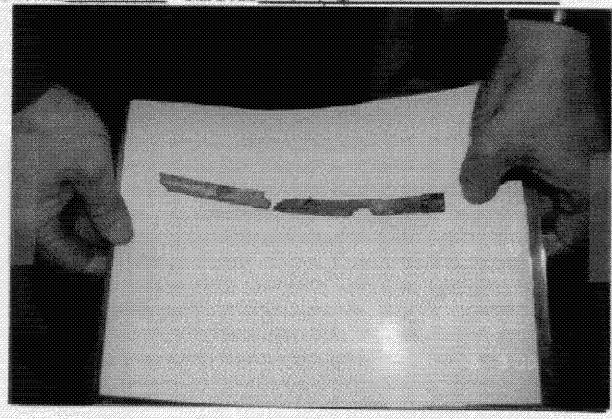


EXPERIENCE 3 DECRETE Landing found P-2 deck) 1010 acres

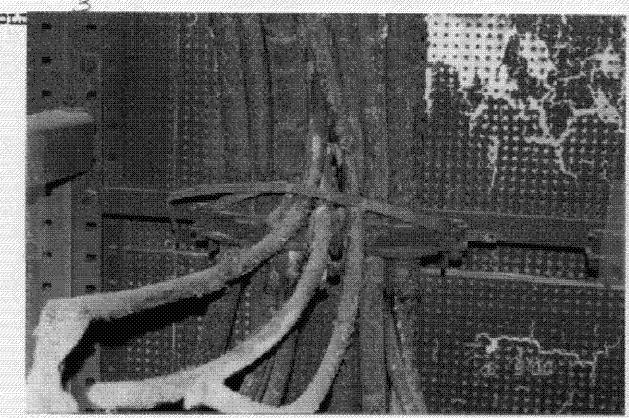


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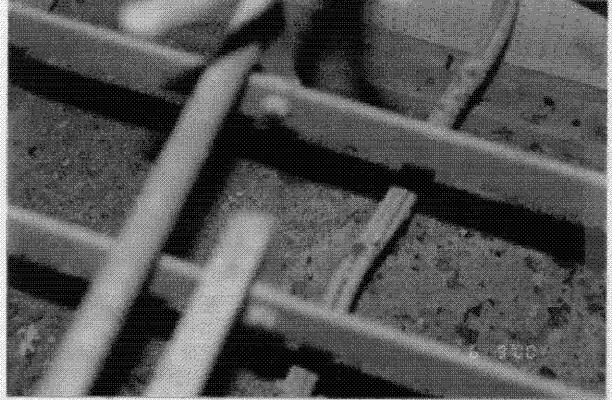
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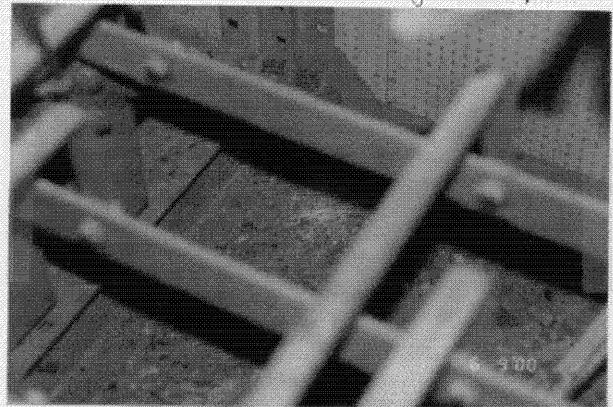
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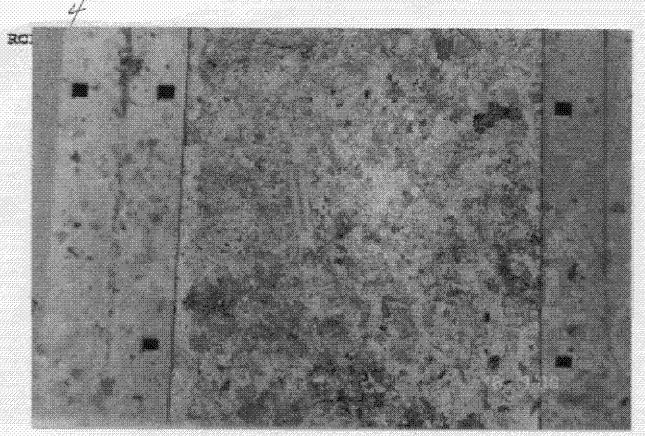
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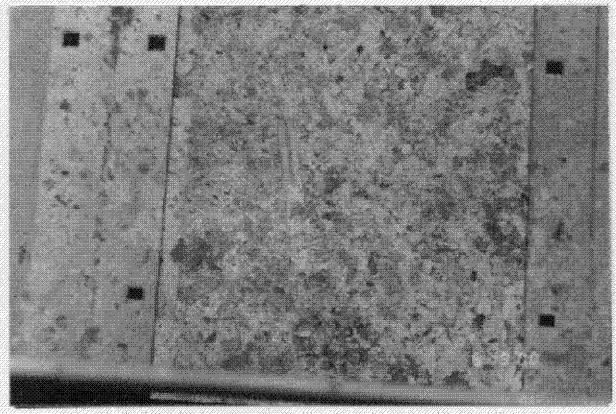
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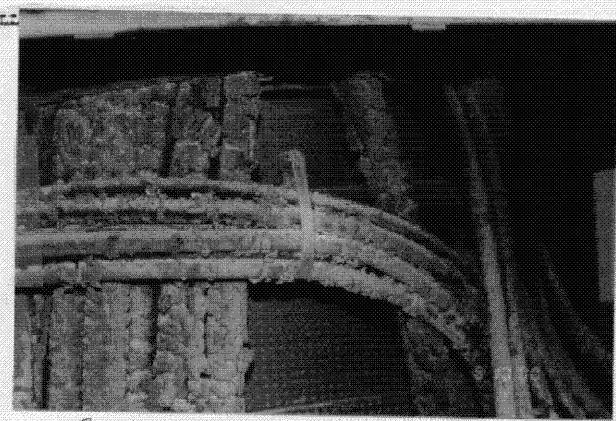
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